

What is claimed is:

1. A reflection mirror of a projection television comprising:

5 a reflection film to which a predetermined tension is applied;

a rectangular structural body to which corner portions of the reflection film are fixed and having a rectangular section shape as a whole such that the tension of the reflection film  
10 is maintained;

a curvature portion curvedly formed at an outer upper edge of the rectangular structural body;

a sliding portion extending downward from the curvature portion and on which the reflection film slides freely;

15 an adhesive portion formed extending from a lower side of the sliding portion to a lower edge of the rectangular structural body, for fixing the reflection film;

at least three ribs extending inwardly from an inner side portion of the rectangular structural body; and

20 a frame provided with a soft shield plate inserted between the ribs.

2. The reflection mirror of claim 1, wherein the ribs comprise:

25 first and third ribs extending inwardly from the upper

and lower edges of the rectangular structural body;

a vertical bar coupled with the first and third ribs and bent at at least two portions; and

a second rib formed extending from the bent portions of  
5 the vertical bar to the inside of the frame.

3. The reflection mirror of claim 2, wherein the vertical bar comprises:

a first vertical bar extending downwardly from the first  
10 rib to be coupled with the second rib; and

a second vertical bar extending upwardly from the third rib and formed at a portion retreated outwardly from the first vertical bar.

15 4. The reflection mirror of claim 1, wherein the curvature portion comprises:

a first curvature portion formed inwardly from the outer upper edge of the rectangular structural body;

a second curvature portion extending from the first  
20 curvature portion toward an outward direction of the rectangular structural body; and

a third curvature portion extending outwardly from the second curvature portion, for lubricating the reflection film.

25 5. The reflection mirror of claim 4, wherein the second

curvature portion has a curvature radius greater than the first curvature portion.

6. The reflection mirror of claim 4, wherein the third  
5 curvature portion has a curvature radius that is greater than the first curvature portion and smaller than the second curvature portion.

7. The reflection mirror of claim 1, wherein the  
10 adhesive portion has a length ranged between two thirds of an overall height of an outer side surface of the frame and three fourths.

8. The reflection mirror of claim 1, wherein the soft  
15 shield plate has a compressed corner portion.

9. The reflection mirror of claim 1, wherein the soft shield plate is a single.

20 10. The reflection mirror of claim 1, wherein the rectangular structural body comprises a reinforcing rib of which both ends are connected with an upper edge of an outer side surface of the rectangular structural body and a lower side of an inner side surface of the rectangular structural  
25 body.

11. The reflection mirror of claim 1, wherein the rib placed in a direction into which the soft shield plate is inserted has an inner end portion placed outside the frame  
5 compared with another rib.

12. The reflection mirror of claim 1, wherein the rib placed in a direction into which the soft shield plate is inserted has a beveled upper surface.

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13. A frame structure of a reflection mirror in a projection television, the frame structure being configured to form a section comprising:

a rectangular structural body;

15 two ribs extending inwardly from an upper edge and a lower edge of the rectangular structural body, for enhancing the strength of the frame; and

a vertical bar connecting the two ribs at different positions.

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14. The frame structure of claim 13, further comprising a rib formed between the two ribs and extending toward an inward direction of the rectangular structural body.

25 15. The frame structure of claim 13, further comprising

a reinforcing rib aslant crossing the inside of the rectangular structural body.

16. The frame structure of claim 13, wherein the rectangular structural body has a reinforcing rib formed therein, the reinforcing rib having one end connected with an outer upper edge of the rectangular structural body.

17. A reflection mirror of a projection television comprising:

a reflection film;

a rectangular structural body having a rectangular section shape as a whole;

a curvature portion formed at an outer upper edge of the rectangular structural body;

an adhesive portion formed at a predetermined portion of a lower side of the curvature portion and to which the reflection film is adhered;

a reinforcing rib of which one end is fixed to the outer upper edge of the rectangular structural body and the other end is fixed to an inner surface of the rectangular structural body;

a frame provided with a rib and a vertical bar formed in the rectangular structural body, for enhancing strength of the frame; and

a soft shield plate formed at a lower surface of the frame.

18. The reflection mirror of claim 17, wherein the  
5 reinforcing rib has one end connected with the outer upper edge of the rectangular structural body and aslant extending.

19. The reflection mirror of claim 17, wherein the other  
end of the reinforcing rib is connected with a bent portion of  
10 the rectangular structural body.

20. The reflection mirror of claim 17, wherein the other  
end of the reinforcing rib is connected with a lower side  
portion of the inner surface of the rectangular structural  
15 body.

21. A reflection mirror of a projection television  
comprising:

a trapeziform frame formed in a rectangular structural  
20 body having an approximate rectangular section shape;

at least three ribs extending inwardly from an inner  
surface of the rectangular structural body;

a vertical bar connecting the ribs in a vertical  
direction; and

25 a single soft shield plate inserted between the ribs.

22. The reflection mirror of claim 21, wherein the soft shield plate has a contractible corner portion.

5        23. The reflection mirror of claim 21, wherein the rib placed in a direction into which the soft shield plate is inserted has a beveled upper surface.

10       24. The reflection mirror of claim 21, wherein the rib placed in a direction into which the soft shield plate is shorter in length than the remainder ribs.

25. The reflection mirror of claim 21, wherein the soft shield plate is of Styrofoam.

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26. The reflection mirror of claim 21, wherein the soft shield plate is inserted between the two ribs formed at a lower side.

20       27. A method for fabricating a reflection mirror for a projection television, the method comprising the steps of:

compressing a corner portion of a soft shield plate having a predetermined shape; and

inserting the compressed soft shield plate in a frame.

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28. The method of claim 27, wherein the soft shield plate is provided by cutting a large-sized soft shield plate.